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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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## (54) THREE-WAY SOLENOID VALVE

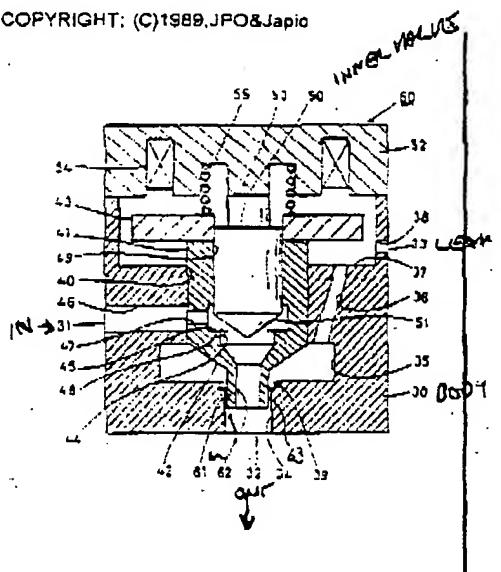
prevented by the throttle 63.

## (57) Abstract:

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**PURPOSE:** To prevent the leak to a discharge port from a feeding port when a valve is switched, by continuously installing a cylindrical part at the top edge of an outer valve for opening and closing the part between a taking-out port and the discharge port and forming a throttle by inserting said cylinder part into the taking-out port.

**CONSTITUTION:** A feeding port 31, taking-out port 32, and a discharge port 33 are formed onto a valve body 30. A passage 44 is formed in an outer valve 41 which contacts and separates from the first valve seat 39, and an inner valve 50 is arranged oppositely to the second valve seat 48 on the midway. A cylindrical part 61 is continuously installed at the top edge of the outer valve 41, and a throttle 63 is formed between the passage 34 of the taking-out port 32. When a solenoid 54 is in nonconduction state, the outer valve 41 is lowered by a spring 55, and the communication between the feeding port 31 and the taking-out port 32 is permitted. When the solenoid 54 conducts, the taking-out port 32 and the discharge port 33 communicates, and the leak to the discharge port 33 from the feeding port 31 is



Prevented by THROTTLE 63